Data Validation Checklist Inorganic Analyses

Project:	35 TH Avenue Superfund Site	Project No:	60430028; 1
Laboratory:	TestAmerica – Savannah, GA	Job ID.:	<u>680-115692-4</u>
Method:	SW-846 6010C (Arsenic and Lead)	Associated Sam	ples: Refer to Attachment A (Sample Summary)
Matrix:	Soil	Samples Collect	
Reviewer:	Kelly Brannigan, URS Group, Inc.	Date:	01/28/2015
Concurrence ¹ :	Martha Meyers-Lee, URS Group, Inc.	Date:	02/03/2016

	Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
1.	Were sample preservation requirements met? If pH of aqueous sample >2 and was not adjusted by laboratory prior to analysis, J- flag positive results and R- flag non-detect results.	✓				
2.	Were all COC records signed and integrity seals intact, indicating that COC was maintained for all samples?		✓		Sample CV0511S-GS-24, which was collected 8/13/2015 at 08:35, was received by the laboratory for analysis, but not listed on the COC record. The sample was logged into the Laboratory Information Management System under laboratory sample ID 680-115692-70.	
3.	Were there any problems noted in laboratory data package concerning condition of samples upon receipt?		√			
4.	Do any soil/sediment samples contain more than 50% water? If yes, then results are to be reported on a wet-weight basis.		√			
5.	Have any technical holding times, determined from date of collection to date of analysis, been exceeded? (Hg: ≤28 days, other metals: ≤6 months; Cr+6: ≤24 hours from extraction). If not, then J- flag positive results and R- flag non-detect aqueous results.		✓			
6.	Were results for all project-specified target analytes reported?	✓				
7.	Were project-specified Reporting Limits achieved for undiluted sample analyses?		√		Resident Soil RSL with THQ = 1.0 (ORNL, November 2015) for target analytes: • Arsenic: 0.68 mg/Kg • Lead: 400 mg/Kg The MDL for lead, but not arsenic, was less than or equal to the respective above-mentioned RSL in all undiluted samples. A data gap does not exist in undiluted soil samples for arsenic, because the metal was detected above the RSL in all samples.	
8.	Were method blank (MB) prepared at the appropriate frequency (one per 20 samples, batch, matrix, and level)?	✓				
9.	Was a calibration blank (ICB/CCB) analyzed at the beginning, after every $10^{\rm th}$ sample, and at the end of each analytical run?	√				
10.	Were target analytes detected in the method and/or calibration blanks?		√		Target analytes were not detected in the method blank. Calibration blanks were not evaluated.	

¹ Independent technical reviewer

	Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
11.	Were target analytes reported in equipment/rinsate blanks analyses above the DL?			✓	According to the QAPP, a rinsate blank is to be collected after each decontamination event, which occurs once per week per the client. A rinsate blank is not associated with this sampling event. Blank contamination will be evaluated based on method blank results.	
	Were contaminants detected in samples below the blank contamination action level? o If blank result > RL, • Flag sample results \leq RL with a U • Flag positive sample results > RL and \leq 10x blank result , as J+ positive results o If blank result \leq RL, • Flag sample results \leq RL with a U • Flag positive sample results > RL and \leq 10x blank result , as J+ positive results			✓	Target analytes were not detected during the analysis of the method blank. An evaluation of the effect of blank contamination on soil sample results was based on method blank results, and not calibration blank results.	
13.	Are there negative laboratory blank results with the absolute value \leq RL? If yes, then flag positive and non-detect sample results that are $< 10x$ absolute blank value as J- and UJ, respectively.		√			
14.			✓			
15.	Was precision deemed acceptable as defined by the project plans?			✓		
16.		·			6010C: 08/19/2015 and 08/20/2015. One blank and one standard initially. ICV initially, and CCV every 10 samples and at end of run. CRI after initial calibration blank analysis.	
17.	 Were these results within lab/project specifications? 6010C ICV/CCV (Criteria: 90-110%R): If %R <75, then J- flag positive results and R-flag non-detects If 75-89%R, then J- flag positive results and UJ flag non-detects If 111-125%R, then J flag positive results If >125%R, then J+ flag positive results If >160%R, then R flag positive results 	•				

Review Question	ons Ye	Zes	No	N/A	Samples (Analytes) Affected/Comments	Flag
 CRI (Method: 70-130%R, Labot 150%R for Sb, Pb, and Tl, and 150%R for Sb, Pb, and Tl, and 1f CRI %R <50 (<30% for St) 2x RL and J flag positive results <2x RL and J flag positive results <2x RL If CRI %R >130% and ≤180 Pb, TL), then J+ flag positive results If CRI %R >180% (>200% ft) positive results If CRI %R >180% (>200% ft) positive results If correlation coefficients <0 and non-detect results. If 65-79%R, then J- flag posited if 65-79%R, then J- flag posited ft 121-135%R, then J+ flag posited ft 121-135%R, then J+ flag posited ft 130%R): If CRI (Method: Not required, Lated 130%R): If CRI %R <50, then R flag positive results >2x RL If CRI %R 50-69%, then J- and RL and ND, respectively If CRI %R >130% and ≤180 <2x RL If CRI %R >180%, then R fl 7196A: ICV/CCV (Criteria: 90-110%R) 	ratory: 50-150%R; Project: 50-70-130%R for all other analytes): b, Pb, TL), then R flag results \lequiv esults \rightarrow 2x RL for Sb, Pb, TL), then J- and UJ and ND, respectively (% (>150%, but \lequiv 200% for Sb, re results \rightarrow 2x RL for Sb, Pb, TL), then R flag (b):		.10		Samples (Analytes) Anected Comments	1 ing
 If correlation coefficients <0 and non-detect results. If %R <65, then J- flag posit If 65-90%R, then J- flag posidetects If 110-135%R, then J flag posit If >135%R, then J+ flag posit If >170%R, then R flag posit 	ive results and R-flag non-detects itive results and UJ flag non-ositive results					
18. Was the interference check sample (ICS) ICP analytical run?		✓				
19. Are ICS recoveries within 80-120% of the as follows when native Al, Fe, Ca, and M to or greater than the ICS spiking level: o If >120%R (or >true value plus 2x C)	g sample concentrations are equal	✓				

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
 If 50-79%R (or less than true value – 2x the CRQL), J- flag positive results and UJ flag non-detects If <50%R, J- flag positive results and R-flag non-detects 					
20. Was a LCS analyzed for each preparation batch (one per 20 samples per matrix and level)?	√				
21. Did LCS recoveries meet method/laboratory/project (80-120%R) specifications? Soil: LCS result > Upper control limit (UCL): J+ flag positive results LCS result < Lower control limit (LCL): J- flag positive results and UJ flag non-detects Aqueous: If <50%R, then J- and R flag positive and ND results, respectively If 50-LCL%R, J- and UJ flag positive and ND results, respectively >UCL: J+ Flag positive results >150%R: R Flag results	✓				
22. Was the RPD between LCS and LCSD results within method/laboratory /project control limits (≤20%RPD)? If not, J and UJ flag positive and non-detect results, respectively.			√	LCS only	
23. Was a Matrix Spike (MS) and Matrix Spike Duplicate (MSD) analyzed once per preparation batch?	√			Batch 396717: 680-115692-61 (CV0511AA-CS-24), MS/MSD/PDS	
24. Is the MS and MSD parent sample a project-specific sample?	✓				
25. Was a post-digestion spike (PDS) analysis conducted when MS and/or MSD results did not meet control limits (Note: PDS is not required for silver, mercury, or hexavalent chromium)?	✓				
 26. For all analytes with sample concentration < 4 x spike concentration, are spike recoveries within method (6010C: 75-125%R MS/MSD and 80-120%R PDS; 7471A: 80-120%R MS/MSD; 7196A: 85-115%R MS), laboratory (MS, MSD, and PDS: 75-125%R for 6010C/7471 (as applicable) and 80-120%R for 7196), and project (as noted below) specifications? <i>Only QC results for project samples are evaluated</i>. If not, 6010C: If MS %R <30 and PDS %R <75, then J- and R Flag positive and ND results, respectively If MS %R <30 and PDS %R >75, then J flag positive and UJ flag non-detect results If MS and MSD %R 30-74 and PDS%R <75, then J- flag positive and UJ flag non-detect results If MS and MSD %R 30-74 and PDS%R ≥75, then J flag positive and UJ flag non-detect results 		~		CV0511AA-CS-24 (680-115692-61): • Arsenic MS and MSD @ -36 and -96%R (75-125%R); PDS @ 78%R (80-120%R). J Flag • Lead MS and MSD @ 65 and 53%R (75-125%R); PDS @ 71%R (80-120%R). J- Flag	J, J-

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
 If MS, MSD, and PDS %R >125, J+ flag positive results If MS and MSD %R >125 and PDS %R ≤125, then J flag positive results If MS and MSD %R <30 and no PDS, then J- flag positive and R-flag non-detect results If MS and MSD %R 30-74 and no PDS, then J- and UJ flag positive and non-detect results, respectively If MS and MSD %R >125 and no PDS, then J+ flag positive results 7471A/7196: If MS %R <30, then J- and R Flag positive and ND results, respectively If MS and MSD %R 30-LCL, then J- flag positive and UJ flag non-detect results 					
• If MS and MSD %R >UCL, then J+ flag positive results 27. For all analytes with sample concentration < 4 x spike concentration, were laboratory/project (≤20%RPD) criteria met for precision during the MS and MSD analysis? Only QC results for project samples are evaluated. ○ If RPD >20%, J and UJ flag positive and non-detect results.		√		CV0511AA-CS-24 (680-115692-61): Arsenic @ 32%RPD (≤20%RPD). J Flag	J
28. Was a serial dilution conducted for 6010C/EPA 200.7?	✓				
29. Is the serial dilution parent sample a project-specific sample?	✓			Batch 396757: 680-115692-61 (CV0511AA-CS-24)	
30. Is the percent difference between the serially diluted result and undiluted result less 10% (for those analytes with native concentrations greater than 50x the DL)? Only QC results for project samples are evaluated. o If %D >10, J and UJ flag positive and non-detect results, respectively.		√		CV0511AA-CS-24 (680-115692-61): Lead @ 17%D (≤10%D). J Flag	J
31. Was a laboratory duplicate analyzed?		✓			
32. Was the lab duplicate analysis conducted on a project-specific sample?			✓		
 33. Were criteria for laboratory/project precision met? Only QC results for project samples are evaluated. If RPD values >20% (35% for soil/sediment) or absolute difference > RL (2x RL for soil/sediment), then J and UJ flag positive and non-detect results, respectively 			✓		
34. Were lab comments included in report? If yes, summarize contents or attach a copy of the narrative.	√			Refer to Attachment B (Case Narrative)	

Comments: The data validation was conducted in accordance with the Non-Industrial Use Property Sampling Event QAPP for the 35th Avenue Removal Site, Birmingham, Alabama, Revision 1 (OTIE, October 2012). The data review process was modeled after the USEPA Contract Laboratory Program (CLP) National Functional Guidelines (NFG) for Inorganic Data Review (EPA 540-R-04-004, October 2004). Sample results have been qualified based on the results of the data review process (Attachment C). Criteria for acceptability of data were based upon available site information, analytical method requirements, guidance documents, and professional judgment

Data Validation Checklist (Continued)

DV Flag Definitions:

- The result is an estimated quantity, but the result may be biased low.
- J The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
- J+ The result is an estimated quantity, but the result may be biased high.
- The data are unusable. The sample results are rejected due to serious deficiencies in meeting Quality Control (QC) criteria. The analyte may or may not be present in the R sample.
- U The analyte was analyzed for, but was not detected above the associated level; blank contamination may exist.
- UJ The analyte was analyzed for, but was not detected. The reported limit is approximate and may be inaccurate or imprecise.

Acronyms:

%	Percent

- %D Percent difference %R Percent recovery °C Degrees Celsius
- BCAL Blank contamination action level CCB Continuing calibration blank CCV Continuing calibration verification CLP Contract laboratory program
- COC Chain-of-custody CR+6 Hexavalent chromium
- CRI Lower Limit of Quantitation Check Sample
- Contract required quantitation limit CROL
- DL Detection limit Data validation DV
- EPA Environmental Protection Agency
- Initial calibration ICAL
- ICB Initial calibration blank ICP Inductively coupled plasma
- **ICS** Interference check sample
- **ICV** Initial calibration verification
- LCL Lower control limit
- LCS Laboratory control sample
- LCSD Laboratory control sample duplicate
- Method detection limit MDL
- Matrix spike MS
- MSD Matrix spike duplicate
- ND Not detected
- NFG National Functional Guidelines
- Post digestion spike PDS
- Quality Assurance Project Plan QAPP
- QC Quality control RL Reporting limit
- RPD Relative percent difference
- Regional Screening Level. Available: http://www.epa.gov/risk/regional-screening-table [February 3, 2016] RSL
- SW-846 Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, EPA. Available: http://www3.epa.gov/epawaste/hazard/testmethods/index.htm [February 3, 2016]
- THQ Target hazard quotients UCL Upper control limit

ATTACHMENT A SAMPLE SUMMARY

SAMPLE SUMMARY

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-115692-4

Sdg Number: 680-115692-04

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
680-115692-61	CV0511AA-CS-24	Solid	08/13/2015 0815	08/15/2015 1050
680-115692-61MS	CV0511AA-CS-24	Solid	08/13/2015 0815	08/15/2015 1050
680-115692-61MSD	CV0511AA-CS-24	Solid	08/13/2015 0815	08/15/2015 1050
680-115692-62	CV0511S-GS-6	Solid	08/13/2015 0820	08/15/2015 1050
680-115692-63	CV0511S-GS-12	Solid	08/13/2015 0825	08/15/2015 1050
680-115692-64	CV0511S-GS-18	Solid	08/13/2015 0830	08/15/2015 1050
680-115692-65	CV0511D-GS-6	Solid	08/13/2015 1000	08/15/2015 1050
680-115692-66	CV0511D-GS-12	Solid	08/13/2015 1005	08/15/2015 1050
680-115692-67	CV0511D-GS-18	Solid	08/13/2015 1010	08/15/2015 1050
680-115692-68	CV0511D-GS-24	Solid	08/13/2015 1015	08/15/2015 1050
680-115692-69	CV0511G-CS-6	Solid	08/13/2015 1030	08/15/2015 1050
680-115692-70	CV0511S-GS-24	Solid	08/13/2015 0835	08/15/2015 1050

ATTACHMENT B

CASE NARRATIVE

CASE NARRATIVE

Client: Oneida Total Integrated Enterprises LLC
Project: 35th Avenue Superfund Site

Report Number: 680-115692-4

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In the event of interference or analytes present at high concentrations, samples may be diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

RECEIPT

The samples were received on 8/15/2015 10:50 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 2.8° C and 3.4° C.

CV0511S-GS-24 (680-115692-70): This sample was received, however, it was not listed on the COC. The laboratory was instructed to analyze this sample.

SEMIVOLATILE ORGANIC COMPOUNDS (GC/MS) LOW LEVEL PAH

Samples CV0511AA-CS-24 (680-115692-61), CV0511S-GS-6 (680-115692-62), CV0511S-GS-12 (680-115692-63), CV0511S-GS-18 (680-115692-64), CV0511D-GS-6 (680-115692-65), CV0511D-GS-12 (680-115692-66), CV0511D-GS-18 (680-115692-67), CV0511D-GS-24 (680-115692-68), CV0511G-CS-6 (680-115692-69) and CV0511S-GS-24 (680-115692-70) were analyzed for Semivolatile Organic Compounds (GC/MS) Low level PAH in accordance with EPA SW846 Method 8270D. The samples were prepared on 08/18/2015 and analyzed on 08/19/2015 and 08/20/2015.

Method(s) 8270D_LL_PAH: The continuing calibration verification (CCV) analyzed in batch 680-396964 was outside the method criteria for the following analyte(s): Dibenz(a,h)anthracene, Fluoranthene, Indeno[1,2,3-cd]pyrene and o-Terphenyl. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method(s) 8270D_LL_PAH: The following samples was diluted due to the nature of the sample matrix: CV0511S-GS-6 (680-115692-62) and CV0511G-CS-6 (680-115692-69). As such, surrogate recoveries are below the calibration range or are not reported, and elevated reporting limits (RLs) are provided.

Method(s) 8270D_LL_PAH: Surrogate recovery was outside acceptance limits for the following matrix spike (MS) sample: CV0511AA-CS-24 (680-115692-61[MS]). The parent sample's surrogate recovery was within limits. The MS/MSD sample has been qualified and reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

METALS (ICP)

Samples CV0511AA-CS-24 (680-115692-61), CV0511S-GS-6 (680-115692-62), CV0511S-GS-12 (680-115692-63), CV0511S-GS-18 (680-115692-64), CV0511D-GS-6 (680-115692-65), CV0511D-GS-12 (680-115692-66), CV0511D-GS-18 (680-115692-67), CV0511D-GS-24 (680-115692-68), CV0511G-CS-6 (680-115692-69) and CV0511S-GS-24 (680-115692-70) were analyzed for Metals (ICP) in accordance with EPA SW-846 Method 6010C. The samples were prepared on 08/18/2015 and analyzed on 08/20/2015.

Arsenic and Lead recoveries are outside criteria low for the MS and MSD of sample CV0511AA-CS-24 (680-115692-61) in batch 680-397264.

Refer to the QC report for details.

Samples CV0511S-GS-12 (680-115692-63)[10X] and CV0511S-GS-18 (680-115692-64)[10X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

PERCENT SOLIDS/MOISTURE

Samples CV0511AA-CS-24 (680-115692-61), CV0511S-GS-6 (680-115692-62), CV0511S-GS-12 (680-115692-63), CV0511S-GS-18 (680-115692-64), CV0511D-GS-6 (680-115692-65), CV0511D-GS-12 (680-115692-66), CV0511D-GS-18 (680-115692-67), CV0511D-GS-24 (680-115692-68), CV0511G-CS-6 (680-115692-69) and CV0511S-GS-24 (680-115692-70) were analyzed for Percent Solids/Moisture in accordance with TestAmerica SOP. The samples were analyzed on 08/18/2015.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

ATTACHMENT C QUALIFIED SAMPLE RESULTS

Client Sample ID: CV0511AA-CS-24 Lab Sample ID: 680-115692-61

Lab Name: TestAmerica Savannah Job No.: 680-115692-4

SDG ID.: 680-115692-04

Matrix: Solid Date Sampled: 08/13/2015 08:15

Reporting Basis DRY Date Received: 08/15/2015 10:50

% Solids: 80.9

CAS No.	Analyte	Result	RL	MDL	Units	С	Q	DIL	Method
7440-38-2	Arsenic	28	2.1	0.85	mg/Kg		P1 J	1	6010C mg
7439-92-1	Lead	25-12	1.1	0.36	mg/Kg		FY J-	1	6010C E

1 (OTIE, October 2013)

Client Sample ID: CV0511S-GS-6

Lab Sample ID: 680-115692-62

Lab Name: TestAmerica Savannah

Job No.: 680-115692-4

SDG ID.: 680-115692-04

Matrix: Solid

Date Sampled: 08/13/2015 08:20

Reporting Basis DRY

Date Received: 08/15/2015 10:50

% Solids: 87.4

CAS No.	Analyte	Result	RL	MDL	Units	С	Q	DIL	Method
7440-38-2	Arsenic	26	2.0	0.79	mg/Kg			1	6010C
7439-92-1	Lead	93	0.99	0.34	mg/Kg			1	6010C <

Client Sample ID: CV0511S-GS-12

Lab Sample ID: 680-115692-63

Lab Name: TestAmerica Savannah

Job No.: 680-115692-4

SDG ID.: 680-115692-04

Matrix: Solid

Date Sampled: 08/13/2015 08:25

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eporting Basis	3 DRY		Date Recei	ved:	08/15/2015 10:50					
Solids: 89.1	8									1 (OTIE
CAS No.	Analyte	Result	RL	MDL	Unit	is.	С	Q	DIL	Methodd
7440-38-2	Arsenic	66	20	8.0	mg/Kg				10	6010C
7439-92-1	Lead	80	10	3.4	mg/Kc	-			10	6010C ਵ

Client Sample ID: CV0511S-GS-18

Lab Sample ID: 680-115692-64

Lab Name: TestAmerica Savannah

Job No.: 680-115692-4

SDG ID.: 680-115692-04

Matrix: Solid

Date Sampled: 08/13/2015 08:30

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eporting Bas	is DRY		Date Recei	.ved:	08/15/2015		10:50			
Solids: 88	3.6	200								I (OTIE,
CAS No.	Analyte	Result	RL	MDL	Uni	ts	С	Q	DIL	Method
7440-38-2	Arsenic	57	21	8.2	mg/K	g			10	6010C
7439-92-1	Lead	86	10	3.5	mg/K	C			10	6010C ₹

Client Sample ID: CV0511D-GS-6

Lab Sample ID: 680-115692-65

Lab Name: TestAmerica Savannah

Job No.: 680-115692-4

SDG ID.: 680-115692-04

atrix: Soli		Date Sample	ed: 08,	08/13/2015 10:00					
eporting Bas		Date Recei	ved: 0	8/15/2015	10:50	Octob			
Solids: 80.5									OTIE
	the state of the s					5.00			-
CAS No.	Analyte	Result	RL	MDL	Units	С	Q	DIL	Method
CAS No.	Analyte	Result 72	RL 2.1	MDL 0.83	Units mg/Kg	С	Q	DIL	Methodal

Client Sample ID: CV0511D-GS-12

Lab Sample ID: 680-115692-66

Lab Name: TestAmerica Savannah

Job No.: 680-115692-4

SDG ID.: 680-115692-04

Matrix: Solid

Date Sampled: 08/13/2015 10:05

Macrix.			Date Jampi								
Reporting Bas	is DRY			Date Recei	.ved:	08/15/2015 10:50					
Solids: 76.9											
CAS No.	Analyte	Result	RL	MDL	Unit	s c	Q	DIL	Methodi		
7440-38-2	Arsenic	52	2.3	0.94	mg/Kg		Ì	1	6010C		
7439-92-1	Lead	56	1.2	0.40	mg/Kg			1	6010C 3		

Client Sample ID: CV0511D-GS-18

Lab Sample ID: 680-115692-67

Lab Name: TestAmerica Savannah

Job No.: 680-115692-4

SDG ID.: 680-115692-04

Matrix: Solid

Date Sampled: 08/13/2015 10:10

Matrix: Soil	<u> </u>		Date Sampi	.ed: 00/1						
Reporting Bas	is DRY		Date Recei	ved: 08	08/15/2015 10:50					
% Solids: 84	.,5		-1						11 (OTIE	
CAS No.	Analyte	Result	RL	MDL	Units	С	Q	DIL	Methad	
7440-38-2	Arsenic	23	2.2	0.86	mg/Kg		Ī	1	6010C	
7439-92-1	Lead	20	1.1	0.37	mg/Kg			1	6010C र	

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Client Sample ID: CV0511D-GS-24

Lab Sample ID: 680-115692-68

Lab Name: TestAmerica Savannah

Job No.: 680-115692-4

SDG ID.: 680-115692-04

Matrix: Solid

Date Sampled: 08/13/2015 10:15

action.			Date Jampi	.cu.						
eporting Bas	is DRY		Date Recei	ved: 0	08/15/2015 10:50					
Solids: 82	2.1								1 (OTIE	
CAS No.	Analyte	Result	RL	MDL	Units	С	Q	DIL	Method	
7440-38-2	Arsenic	4.3	2.3	0.93	mg/Kg		1	1	6010C	
7439-92-1	Lead	10	1.2	0.39	mg/Kg	_+	+	-	6010c ₹	

Client Sample ID: CV0511G-CS-6 Lab Sample ID: 680-115692-69 Lab Name: TestAmerica Savannah Job No.: 680-115692-4 SDG ID.: 680-115692-04 201 Matrix: Solid Date Sampled: 08/13/2015 10:30 a 1 (OTIE, October

Date Received: 08/15/2015 10:50

% Solids: 88.7

Reporting Basis DRY

CAS No.	Analyte	Result	RL	MDL	Units	С	Q	DIL	Method
7440-38-2	Arsenic	15	2.0	0.81	mg/Kg			1	6010C
7439-92-1	Lead	46	1.0	0.34	mg/Kg			1	6010C <

Sample results have been qualified by URS in accordance with the Non-Industrial Use Property Sampling Event QAPP for the 35th Avenue Removal Site, Birminghan

Client Sample ID: CV0511S-GS-12

Lab Sample ID: 680-115692-70

Lab Name: TestAmerica Savannah

Job No.: 680-115692-4

SDG ID.: 680-115692-04

Matrix: Solid

Date Sampled: 08/13/2015 08:35

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Reporting Bas	is DRY		Date Recei	ved:	08/15/2015 10:50					
% Solids: 86	5.2	-								I (OTIE,
CAS No.	Analyte	Result	RL	MDL	Uni	ts	С	Q	DIL	Method
7440-38-2	Arsenic	23	2.1	0.83	mg/K	g			1	6010C g
7439-92-1	Lead	19	1.0	0.35	mg/K	g			1	6010C ₹

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